

## Tozinameran

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### Nephrotic syndrome: case report

A 15-year-old boy developed nephrotic syndrome following the administration of tozinameran against COVID-19.

The boy received the first dose of tozinameran injection [BNT162b2; *dosage and route not stated*] against COVID-19. The following day, he developed a fever of 37.3°C and slight swelling at the injection site. He developed eyelid oedema 4 days after vaccination and peripheral oedema of the lower extremities on day 8 post-vaccination. He visited the local clinic 16 days after vaccination, urinalysis showed urine protein 4+, and nephrotic syndrome was suspected. He was referred to another hospital on day 19 post-vaccination. He was admitted. His body weight had increased from 45 to 49.7kg, BP was 106/62mm Hg, and pulse rate was 69 beats/min. Physical examination showed oedema of the eyelids and lower extremities, and the abdomen was distended. Blood tests showed serum albumin 1.6 g/dL, creatinine 0.64 mg/dL, estimated glomerular filtration rate (eGFR) 116.62 mL/min/1.73m<sup>2</sup>, blood urea nitrogen 7 mg/dL, serum sodium 141 mEq/L, potassium 3.9 mEq/L, chloride 106 mEq/L, and total cholesterol 335 mg/dL. Urinalysis showed urine protein 4+, urine sediment red blood cells <1/high-power field, and initial urinary protein-creatinine ratio 7.71 g/g creatinine. The result of an anti-SARS-CoV-2 S serology assay was 111 U/mL. Chest X-ray showed bilateral pleural effusions, and ultrasonography showed normal kidney size, but also oedema of the intestinal wall and ascites. He was diagnosed with nephrotic syndrome.

The boy was treated with prednisolone at 21 days post-vaccination. He achieved complete remission on the 12th day of treatment and did not develop any complications.

Nakazawa E, et al. New-onset pediatric nephrotic syndrome following Pfizer-BioNTech SARS-CoV-2 vaccination: a case report and literature review. [Review]. CEN Case Reports 11: 242-246, No. 2, May 2022. Available from: URL: <https://link.springer.com/article/10.1007/s13730-021-00656-0>

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